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FULL ESTIMATED COST

ENTRY SESSION 0.21 0.21

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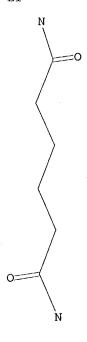
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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L1 STRUCTURE UPLOADED

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FULL SEARCH INITIATED 14:00:31 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 475941 TO ITERATE

84.0% PROCESSED 400000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) **SEARCH TIME: 00.00.08** 

4796 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

475941 TO 475941

PROJECTED ANSWERS:

5480 TO 5932

4796 SEA SSS FUL L1

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FILE COVERS 1907 - 23 Sep 2004 VOL 141 ISS 13 FILE LAST UPDATED: 22 Sep 2004 (20040922/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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1550 L2

264845 LIGAND

229188 CHANNEL

106220 PUMP

625070 TRANSPORT

33509 TRANSPORTER

L32 L2 AND LIGAND AND (CHANNEL OR PUMP OR TRANSPORT OR TRANSPORTER)

=> t ti 13 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

Interaction between iron(II) and hydroxamic acids: oxidation of iron(II) TΤ to iron(III) by desferrioxamine B under anaerobic conditions

L3ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

Nanoparticles containing an active agent and a poly(tartaramide ketal) ΤI

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:94960 CAPLUS

DOCUMENT NUMBER: 134:337180

TITLE: Interaction between iron(II) and hydroxamic acids:

oxidation of iron(II) to iron(III) by desferrioxamine

B under anaerobic conditions

Farkas, E.; Enyedy, E. A.; Zekany, L.; Deak, G. AUTHOR(S):

Department of Inorganic and Analytical Chemistry, CORPORATE SOURCE: University of Debrecen, Debrecen, H-4010, Hung.

Journal of Inorganic Biochemistry (2001), 83(2-3),

107-114

CODEN: JIBIDJ; ISSN: 0162-0134

PUBLISHER:

SOURCE:

Elsevier Science Inc.

DOCUMENT TYPE:

LANGUAGE:

English

Interaction between iron(II) and acetohydroxamic acid (Aha),

 $\alpha$ -alaninehydroxamic acid ( $\alpha$ -Alaha),  $\beta$ -alaninehydroxamic acid (β-Alaha), hexanedioic acid bis(3-hydroxycarbamoyl-methyl)amide

(Dha) or desferrioxamine B (DFB) under anaerobic conditions was studied by pH-metric and UV-Visible spectrophotometric methods. The stability consts. of complexes formed with Aha,  $\alpha$ -Alaha,  $\beta$ -Alaha and Dha

were calculated and turned out to be much lower than those of the corresponding iron(III) complexes. Stability consts. of the

iron(II)-hydroxamate complexes are compared with those of other divalent 3d-block metal ions and the Irving-Williams series of stabilities was

found to be observed Above pH 4, in the reactions between iron(II) and desferrioxamine B, the oxidation of the metal ion to iron(III) by the

ligand was found. The overall reaction that resulted in the formation of the tris-hydroxamato complex [Fe(HDFB)]+ and monoamide derivative of DFB at pH 6 is:2Fe2++3H4DFB+=2[Fe(HDFB)]++H3DFB-monoamide++H2O+4H+.

Based on these results, the conclusion is that desferrioxamine B can uptake iron in iron(III) form under anaerobic conditions.

REFERENCE COUNT:

19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2004 ACS on STN ANSWER 2 OF 2

ACCESSION NUMBER:

1995:851985 CAPLUS

DOCUMENT NUMBER:

124:185539

TITLE:

Nanoparticles containing an active agent and a

poly(tartaramide ketal)

INVENTOR(S):

Ahlers, Michael; Walch, Axel; Seipke, Gerhard;

Russell-Jones, Gregory

PATENT ASSIGNEE(S):

Hoechst A.-G., Germany Eur. Pat. Appl., 12 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent German

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 671169	A1	19950913	EP 1995-103045	19950303
R: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IE, IT, LI, LU,	NL, PT, SE
DE 4407898	A1	19950914	DE 1994-4407898	19940309
TW 457096	В	20011001	TW 1995-84101519	19950220
FI 9501053	Α	19950910	FI 1995-1053	19950307
US 5674531	A	19971007	US 1995-399474	19950307
IL 112905	A1	20000831	IL 1995-112905	19950307

CA 2144216	AA	19950910	CA 1995-2144216		19950308
NO 9500889	A	19950911	NO 1995-889		19950308
AU 9514701	A1	19950921	AU 1995-14701		19950308
AU 685577	B2	19980122			
JP 07258114	A2	19951009	JP 1995-48006		19950308
ZA 9501910	Α	19951113	ZA 1995-1910		19950308
HU 72033	A2	19960328	HU 1995-698		19950308
PRIORITY APPLN. INFO.:			DE 1994-4407898	Α	19940309

GI For diagram(s), see printed CA Issue.

AB Nanoparticles of poly(tartaramide ketal) [I; R2 = (substituted) alkylene, cycloalkylene] are useful as biocompatible, biodegradable carriers for drugs, especially peptides and proteins. The nanoparticles may be functionalized with specific ligands which facilitate receptor-mediated transport through the intestinal wall. Thus, DL-tartaric acid was refluxed in MeOH with 2,2-dimethoxypropane and p-toluenesulfonic acid to form di-Me 2,3-O-isopropylidene-DL-tartrate, which was polymerized with 1,8-diaminooctane. A solution of this polymer 280, polylysine 60, and insulin 40 mg in MeOH was spray dried to produce nanoparticles 330 nm in diameter

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

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FULL ESTIMATED COST	0.36	172.99
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
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L1 STRUCTURE UPLOADED

L2 4796 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:00:48 ON 23 SEP 2004

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FILE 'STNGUIDE' ENTERED AT 14:03:12 ON 23 SEP 2004

FILE 'CAPLUS' ENTERED AT 14:06:39 ON 23 SEP 2004

=> s 12 and ligand

1550 L2

264845 LIGAND

L4 49 L2 AND LIGAND

=> t ti 14 1-49

- L4 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Orthogonal Control of Dissociation Dynamics Relative to Thermodynamics in a Main-Chain Reversible Polymer
- L4 ANSWER 2 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Preparation of novel chiral samarium(II) complexes and their application to asymmetric synthesis
- L4 ANSWER 3 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI C2-symmetric inhibitors of Plasmodium falciparum plasmepsin II: synthesis and theoretical predictions
- L4 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Potentiating vanadium-evoked glucose metabolism by novel hydroxamate derivatives
- L4 ANSWER 5 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Ruthenium complexes for organic electrochromic materials for optical attenuation in the near infrared region
- L4 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Pyrrolidine derivatives for depletion of an unwanted protein population from plasma
- L4 ANSWER 7 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Method of identifying inhibitors of Cdc25 using three dimensional crystal structure of the catalytic domain of Cdc25
- L4 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Crystal structure and three-dimensional structure of human Cdc25 catalytic domains and its use in designing peptidomimetic inhibitors

- L4 ANSWER 9 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- In vivo imaging of human colon cancer xenografts in immunodeficient mice using a guanylyl cyclase C-specific ligand
- L4 ANSWER 10 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI IR and Raman spectra of lanthanide nitrate complexes with TBAA
- L4 ANSWER 11 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Half-sandwich ruthenium(II) compounds comprising heteroatom containing ligands for treatment of cancer
- L4 ANSWER 12 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Erythropoietin Mimetics Derived from Solution Phase Combinatorial Libraries
- L4 ANSWER 13 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Syntheses and structures of two mixed ligands lanthanide complexes with N,N'-substituted adipamide
- L4 ANSWER 14 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI A structure-function study of liquid recognition by CD22B
- L4 ANSWER 15 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Crystal structure of CDC25 proteins and its use in rational design of inhibitors
- L4 ANSWER 16 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Interaction between iron(II) and hydroxamic acids: oxidation of iron(II) to iron(III) by desferrioxamine B under anaerobic conditions
- L4 ANSWER 17 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Synthesis, Crystal Structure, Spectral Studies, and Catechol Oxidase Activity of Trigonal Bipyramidal Cu(II) Complexes Derived from a Tetradentate Diamide Bisbenzimidazole Ligand
- L4 ANSWER 18 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Synthesis, electrochemistry, and photophysics of a novel binuclear polypyridyl Ru(II) complex with an 1,8-adipoylamidobis(1,10-phenanthroline-5-yl) ligand
- L4 ANSWER 19 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- Developing carrier complexes for "caged NO": RuCl3(NO)(H2O)2 complexes of dipyridylamine, (dpaH), N,N,N'N'-tetrakis(2-pyridyl)adipamide, (tpada), and (2-pyridylmethyl)iminodiacetate, (pida2-)
- L4 ANSWER 20 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Estimation of Receptor-Ligand Interactions by the Use of a Two-Marker System in Affinity Capillary Electrophoresis
- L4 ANSWER 21 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI [RuII(hedta)] complexes of 2,2'-dipyridylamine (dpaH) and a bifunctional tethered analog, N,N,N',N'-tetrakis(2-pyridyl)adipamide (tpada)
- L4 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI A surface-modified functional liposome capable of binding to cell membranes
- L4 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Synthesis of a novel lipopeptide with α-melanocyte-stimulating hormone peptide **ligand** and its effect on liposome stability. [Erratum to document cited in CA131:88183]

- L4 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Preparation of N-(4-amino-6-quinoly1) carboxamides as chemokine receptor ligands and as anti-AIDS drugs
- L4 ANSWER 25 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Binding of a dimeric derivative of vancomycin to L-Lys-D-Ala-D-lactate in solution and at a surface
- L4 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Synthesis of a novel lipopeptide with  $\alpha$ -melanocyte-stimulating hormone peptide **ligand** and its effect on liposome stability
- L4 ANSWER 27 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Synthesis and characterization of model compounds of the active site of the enzyme superoxide dismutase
- L4 ANSWER 28 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Synthesis of neoglycoconjugate dendrimers
- L4 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Cytotoxicity of (2,2':6',2''-Terpyridine)platinum(II) Complexes to Leishmania donovani, Trypanosoma cruzi, and Trypanosoma brucei
- L4 ANSWER 30 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Interaction between Mo(VI) and siderophore models in aqueous solution
- L4 ANSWER 31 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI The use of affinity capillary electrophoresis for determining binding constants of ligands to receptors
- L4 ANSWER 32 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Modification of receptor selectivity and functional activity of cyclic cholecystokinin analogs
- L4 ANSWER 33 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Platinum(IV) complexes of vicinal-1,2-diamines and bis(vicinal-1,2-diamines) with an acylamino function. Evidence for a platinum hydroperoxide intermediate upon oxidation
- L4 ANSWER 34 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Bis[4'-(4-anilino)-2,2':6',2"-terpyridine]transition-metal complexes: electrochemically active monomers with a range of magnetic and optical properties for assembly of metallo oligomers and macromolecules
- L4 ANSWER 35 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Behavior of Ruthenium Trisbipyridine-Anthraquinone Conjugates Connected with Alkyl Spacers in Homogeneous and Microheterogeneous Media
- L4 ANSWER 36 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Molecular Interaction of DNA with Bisplatinum(II) Complexes Having Bis(Vicinal 1,2-Diamines) as Ligand
- L4 ANSWER 37 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Preparation of terpyridine-platinum(II) complexes as potent intercalators of DNA, and as antitumor and antiparasitic agents
- L4 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
- TI dl-Selective reductive coupling/Dieckmann condensation sequence of  $\alpha$ ,  $\beta$ -unsaturated amides with samarium(II) iodide/HMPA. Synthesis of a new ligand, trans-1,2-cyclopentanediyl-2,2'-bis(phenol)
- L4 ANSWER 39 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

- TTPreparation and characterization of mixed-ligand dihydrazone complexes of nickel(II)
- ANSWER 40 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4
- Nanoparticles containing an active agent and a poly(tartaramide ketal) TI
- ANSWER 41 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4
- Synthesis, characterization and biological activity of metal complexes of N, N'-bis (8-hydroxy-5-quinolinyl) adipamide
- ANSWER 42 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4
- ΤI Synthesis and structure of μ-tetrabutyladipamide lanthanum(III) binuclear complex La2µ-[Bu2NCO(CH2)4CONBu2][Bu2NCO(CH2)4CONBu2]2(NO3)6
- ANSWER 43 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4
- Synthesis, properties and structure of some lanthanide nitrate binuclear TIcomplex with N,N,N',N'-tetrabutyladipamide [ $Ln2\mu$ -{Bu2NCO (CH2) 4CONBu2} {Bu2NCO (CH2) 4CONBu2} 2 (NO3) 6]
- ANSWER 44 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4
- Determination of Binding Constants of Ligands to Proteins by Affinity TΤ Capillary Electrophoresis: Compensation for Electroosmotic Flow
- ANSWER 45 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4
- Synthesis and opioid receptor affinity of bivalent ligands derived from 3,8-diazabicyclo(3.2.1)octanes
- ANSWER 46 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4
- Use of affinity capillary electrophoresis to determine kinetic and TTequilibrium constants for binding of arylsulfonamides to bovine carbonic anhydrase
- ANSWER 47 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4
- TI Use of affinity capillary electrophoresis to measure binding constants of ligands to proteins
- ANSWER 48 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4
- TI Synthesis and pharmacological evaluation of the anticonvulsant activity of bivalent ligands derived from 4-amino-2',6'-dimethylbenzanilide
- ANSWER 49 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN T.4
- Molecular recognition between oligopeptides and nucleic acids: DNA ΤĮ binding specificity of a series of bis netropsin analogs deduced from footprinting analysis
- => d ibib abs 14, 3,4,7,8,9,11,12-15,20-29,31,32,37,38,40,41,44,45,47-49

ANSWER 3 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:595171 CAPLUS

DOCUMENT NUMBER:

140:159483

TITLE:

C2-symmetric inhibitors of Plasmodium falciparum plasmepsin II: synthesis and theoretical predictions

AUTHOR(S): Ersmark, Karolina; Feierberg, Isabella; Bjelic,

Sinisa; Hulten, Johan; Samuelsson, Bertil; Aqvist,

Johan; Hallberg, Anders

CORPORATE SOURCE:

BMC, Department of Medicinal Chemistry, Uppsala

University, Uppsala, SE-751 23, Swed.

SOURCE:

Bioorganic & Medicinal Chemistry (2003), 11(17),

3723-3733

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

A series of C2-sym. compds. with a mannitol-based scaffold has been investigated, both theor. and exptl., as Plm II inhibitors. Four different stereoisomers with either benzyloxy or allyloxy P1/P1' side chains were studied. Computational ranking of the binding affinities of the eight compds. was carried out using the linear interaction energy (LIE) method relying on a complex previously determined by crystallog. Within both series of isomers the theor. binding energies were in agreement with the enzymic measurements, illustrating the power of the LIE method for the prediction of ligand affinities prior to synthesis. The structural models of the enzyme-inhibitor complexes obtained from the MD simulations provided a basis for interpretation of further structure-activity relationships. Hence, the affinity of a structurally similar ligand, but with a different P2/P2' substituent was examined using the same procedure. The predicted improvement in binding constant agreed well with exptl. results.

REFERENCE COUNT:

50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

2003:521636 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 140:157168

Potentiating vanadium-evoked glucose metabolism by TITLE:

novel hydroxamate derivatives

Hindi, Sagit; Grossman, Dov P.; Goldwaser, Itzhak; AUTHOR(S):

Shechter, Yoram; Fridkin, Mati

Department of Organic Chemistry, The Weizmann CORPORATE SOURCE:

Institute of Science, Rehovot, Israel

SOURCE: Letters in Peptide Science (2003), Volume Date 2002,

9(6), 235-254

CODEN: LPSCEM; ISSN: 0929-5666 Kluwer Academic Publishers

DOCUMENT TYPE: Journal LANGUAGE: English

L-Glutamic acid  $(\gamma)$  monohydroxamate (L-Glu $(\gamma)$  HXM) enhances the insulinomimetic activity of vanadium ions both in vitro and in vivo. Based on this ligand as a lead compound, and in order to delineate mol. features relevant to its anti-diabetic potential, 14 related derivs., including short peptides, were synthesized by solution as well as by solid phase methodologies. In addition, hydroxamate derivs. of (+) pantothenic acid and D-biotin were prepared The vanadium binding capacity of the hydroxamates synthesized was apparent, yet each had a different ligand-ions stoichiometry. The in vitro lipogenic potency of several compds. toward rat adipocytes was demonstrated. Thus, vanadium complexes of L-Gln( $\alpha$ ) HXM, L-Glu( $\gamma$ ) HXM-Gly, L-Aad( $\delta$ ) HXM,  $di-Glu-\gamma,\gamma-HXM$  and of (+) pantothenic acid hydroxamate exhibited 82, 79, 76, 39 and 39% of maximal insulin activity, resp. L-Aad( $\delta$ )HXM, L-Glu( $\gamma$ )HXM-Gly and (+) pantothenic acid hydroxamate - by themselves - were found to possess 24, 14 and 10% of maximal insulin activity, resp. In vivo potency, however, of  $L-Gln(\alpha)HXM$  vanadium complex in streptozocin-treated rat diabetic model was less apparent. 28

REFERENCE COUNT:

PUBLISHER:

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 7 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

2002:928230 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 138:19472

TITLE: Method of identifying inhibitors of Cdc25 using three

dimensional crystal structure of the catalytic domain

of Cdc25

INVENTOR(S):

Taylor, Neil R.; Borhani, David; Epstein, David; Rudolph, Johannes; Ritter, Kurt; Fujimori, Taro; Robinson, Simon; Eckstein, Jens; Haupt, Andreas; Walker, Nigel; Dixon, Richard W.; Choquette, Deborah;

Blanchard, Jill; Kluge, Arthur; Pal, Kollol; Bockovich, Nicholas; Come, Jon; Hediger, Mark

PATENT ASSIGNEE(S):

Australia

SOURCE:

U.S. Pat. Appl. Publ., 246 pp., Cont.-in-part of U.S.

Ser. No. 645,750.

CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2002183249	A1	20021205	us 2001-797500		20010301
PRIORITY APPLN. INFO.:			US 1999-172215P	Ρ	19990831
			US 2000-645750	Α2	20000824

MARPAT 138:19472 OTHER SOURCE(S):

The present invention relates to the x-ray crystallog. study of proteins AB comprising the catalytic domains of Cdc25. The atomic coordinates which result from this study are of use in identifying compds. which fit in the catalytic domain and are, therefore, potential inhibitors of Cdc25. The present invention further provides proteins which comprise the ligand binding domain of Cdc25, crystalline forms of these proteins and the use of these crystalline forms to determine the three dimensional structure of

the catalytic domain of Cdc25. The invention also relates to the use of the three dimensional structure of the Cdc25 catalytic domain in methods of designing and/or identifying potential inhibitors of Cdc25 activity, for example, compds. which inhibit the binding of a native substrate to the Cdc25 catalytic domain. These Cdc25 inhibitors are of use in methods of treating a patient having a condition which is modulated by Cdc25 activity, for example, a condition characterized by excessive, inappropriate or undesirable cellular proliferation such as cancer.

ANSWER 8 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:696111 CAPLUS

DOCUMENT NUMBER:

137:228607

TITLE:

Crystal structure and three-dimensional structure of human Cdc25 catalytic domains and its use in designing

peptidomimetic inhibitors

INVENTOR(S):

Taylor, Neil R.; Borhani, David; Epstein, David; Rudolph, Johannes; Ritter, Kurt; Fujimori, Taro; Robinson, Simon; Eckstein, Jens; Haupt, Andreas; Walker, Nigel; Dixon, Richard W.; Choquette, Deborah;

Blanchard, Jill; Kluge, Arthur; Pal, Kollol; Bockovich, Nicholas; Come, Jon; Hediger, Mark

PATENT ASSIGNEE(S): SOURCE:

BASF Aktiengesellschaft, Germany; GPC Biotech Inc.

PCT Int. Appl., 351 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002070680	A1	20020912	WO 2001-US6587	20010301
W: AE, AG, AL,	AM, AT	, AU, AZ, BA	A, BB, BG, BR, BY, BZ,	CA, CH, CN,

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CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
                HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
                YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
           RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
                DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
                BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                                         WO 2001-US6587
                                                                                       20010301
PRIORITY APPLN. INFO.:
                                MARPAT 137:228607
OTHER SOURCE(S):
```

Due to its role in regulating the cell cycle, Cdc25 (a family of dual specificity phosphatases) is a potential target for therapies aimed at controlling proliferative diseases, but rational, structure-based design has not been possible because of the lack of accurate 3-dimensional data. The present invention relates to polypeptides which comprises the ligand binding domain of human Cdc25 proteins, crystalline forms of these polypeptides, and the use of these crystalline forms to determine the 3-dimensional structure of the catalytic domain of Cdc25. In particular, a high resolution crystal structure was obtained for the polypeptide denoted CDC25B( $\Delta$ N8B), comprising residues Glu-368 through Arg-562 of human Cdc25B, complexed with a pentapeptide inhibitor denoted cdc1249 (2-methoxynaphthyl-1-carboxy-(4-sulfomethyl)-L-Phe-L-Glu-Lnaphthylalanine-L-Glu-amide). The invention also relates to the use of the 3-dimensional structure of the Cdc25 catalytic domain in methods of designing and/or identifying potential inhibitors of Cdc25 activity, for example, compds. which inhibitors of Cdc25 activity, for example, compds. which inhibit the binding of a native substrate to the Cdc25 catalytic domain. The syntheses and structures of a large number of putative pentapeptide inhibitors are also provided. Such inhibitors have potential in the treatment of diseases associated with excessive cellular proliferation, such as cancer, restenosis, reocclusion of coronary artery, and inflammation.

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4

ACCESSION NUMBER:

2002:386498 CAPLUS

DOCUMENT NUMBER:

138:52011

TITLE:

In vivo imaging of human colon cancer xenografts in

immunodeficient mice using a quanylyl cyclase

C-specific ligand

AUTHOR(S):

Wolfe, Henry R.; Mendizabal, Marivi; Lleong, Elinor; Cuthbertson, Alan; Desai, Vinay; Pullan, Shirley; Fujii, Dennis K.; Morrison, Matthew; Pither, Richard; Waldman, Scott A.

CORPORATE SOURCE:

Research and Development Department, Targeted

Diagnostics and Therapeutics, Inc., West Chester, PA,

19380, USA

SOURCE:

Journal of Nuclear Medicine (2002), 43(3), 392-399

CODEN: JNMEAQ; ISSN: 0161-5505

PUBLISHER:

Society of Nuclear Medicine

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Guanylyl cyclase C (GC-C) is a transmembrane receptor expressed by human intestinal cells and primary and metastatic colorectal adenocarcinomas but not by extraintestinal tissues or tumors. The Escherichia coli heat-stable enterotoxin analog, STa (5-18), is a 14-amino acid peptide that selectively binds to the extracellular domain of GC-C with subnanomolar affinity. This study examined the utility of a radiolabeled conjugate of STa (5-18) to selectively target and image extraintestinal human colon cancer xenografts in vivo in nude mice. The STa conjugate, ethoxyethyl-mercaptoacetamidoadipoylglycylglycine-STa (5-18) (NC100586),

was synthesized and labeled with 99mTc to produce 99mTc-NC100586. This compound was i.v. administered to nude mice bearing human colon cancer xenografts, and specific targeting was evaluated by biodistribution and gamma camera imaging. In CD-1 nude mice, biodistribution and scintigraphic imaging analyses showed selective uptake of 99mTc-NC100586 into human colon cancer xenografts that express GC-C but not into normal tissues that do not express GC-C. Similarly, 99mTc-NC100586 injected i.v. into CD-1 nude mice with human colon cancer hepatic metastases selectively accumulated in those metastases, and .apprx.5-mm foci of tumor cells were visualized after ex vivo imaging of excised livers. Accumulation of 99mTc-NC100586 in human colon cancer xenografts reflected binding to GC-C because 99mTc-NC100588, an inactive analog that does not bind to GC-C, did not selectively accumulate in cancer xenografts compared with normal tissues. Also, coadministration of excess unlabeled STa (5-18) prevented accumulation of 99mTc-NC100586 in human colon cancer xenografts. Furthermore, 99mTc-NC100586 did not selectively accumulate in Lewis lung tumor xenografts, which do not express GC-C. This study showed that i.v. administered STa (5-18) selectively recognizes and binds to GC-C expressed by human colon cancer cells in vivo. Also shown was the ability to exploit this selective interaction to target imaging agents to extraintestinal human colon tumors in nude mice. These results suggest the utility of STa and GC-C for the development of novel targeted imaging and therapeutic agents with high specificity for metastatic colorectal tumors in humans.

REFERENCE COUNT:

THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS 40 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:31461 CAPLUS

DOCUMENT NUMBER:

136:85944

TITLE:

Half-sandwich ruthenium(II) compounds comprising heteroatom containing ligands for treatment of cancer Morris, Robert Edward; Sadler, Peter John; Jodrell,

INVENTOR(S):

Duncan; Chen, Haimei

PATENT ASSIGNEE(S):

University Court, the University of Edinburgh, UK

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

1	PAI	ENT 1	NO.			KINI	)	DATE		i	APPL	ICAT:	ION I	NO.		Di	ATE	
V	MO	2002	0025	 72		A1	_	2002	0110	1	WO 2	001-	GB28:	2.4		2	0010	626
		W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,
			RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,
			UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM		
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
			DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	ВÈ,
			ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
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		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR						
		2001														2	0010	626
Ċ	JP	2004	5026	96		Т2		2004	0129		JP 2	002-	5078	24		2	0010	626
Ţ	US	2004	0298	52 ·		A1		2004	0212	1	US 2	003-	3129	40		2	0030	815
PRIOR	IΤ	APP	LN.	INFO	.:					1	GB 2	000-	1605	2	i	A 2	0000	630

MARPAT 136:85944

GΙ

$$\begin{bmatrix}
R^{5} & R^{6} \\
R^{4} & R^{2} \\
R^{3} & R^{2}
\end{bmatrix}$$

Ι

AB The preparation of compds. [I; wherein R1 and R2 together with the ring to which they are bound represent a saturated or unsatd. carbocyclic or heterocyclic group; R3, R4, R5, R6, independently = H, alkyl, aryl, alkaryl, or CO2R' (R' = alkyl, aryl, or alkaryl); X = halo, H2O, sulfoxy, carboxy, etc.; A and B, independently = O-donor, N-donor, or S-donor ligands, or halo; C' = (C1-C12)alkylene, optionally substituted in or on the alkylene chain, bound to two A groups; p = 0, 1 and r = 1 when p = 0and r = 2 when p = 1; m = 0, 1] is described. Thus, 1,4,9,10tetrahydroanthracene is reacted with RuCl3-3H2O to give 89% [ $(\eta6-C14H12)RuCl2$ ]2, which was complexed with ethylenediamine (en) in the presence of NH4PF6 to give 33% [( $\eta$ 6-C14H12)RuCl(en)]+PF6-. Compds. I are useful as antitumor agents, exhibiting IC50 values as high as 315µM against A2780 ovarian cancer cell line. Biol. data are given. REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

ANSWER 12 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4

ACCESSION NUMBER:

2001:936129 CAPLUS

DOCUMENT NUMBER:

136:194211

TITLE:

Erythropoietin Mimetics Derived from Solution Phase

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Combinatorial Libraries

AUTHOR(S):

Goldberg, Joel; Jin, Qing; Ambroise, Yves; Satoh, Shigeki; Desharnais, Joel; Capps, Kevin; Boger, Dale

CORPORATE SOURCE:

Department of Chemistry, The Skaggs Institute for

Chemical Biology, The Scripps Research Institute, La

Jolla, CA, 92037, USA

SOURCE:

Journal of the American Chemical Society (2002),

124(4), 544-555

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE: English

The erythropoietin receptor (EPOr) is activated by ligand -induced homodimerization, which leads to the proliferation and differentiation of erythroid progenitors. Through the screening of combinatorial libraries of dimeric iminodiacetic acid diamides, novel small mol. binders of EPOr were identified in a protein binding assay. Evaluation of a series of analogs led to optimization of binding subunits, and these were utilized in the synthesis of higher order dimer, trimer, and tetramer libraries. Several of the most active EPOr binders were found to be partial agonists and induced concentration-dependent proliferation

of

an EPO-dependent cell line (UT-7/EPO) while having no effect on a cell line lacking the EPOr (FDC-P1). An addnl. compound library, based on a sym. isoindoline-5,6-dicarboxylic acid template and including the optimized binding subunits, was synthesized and screened leading to the identification of addnl. EPO mimetics.

REFERENCE COUNT:

52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:404409 CAPLUS

DOCUMENT NUMBER:

135:146263

TITLE:

Syntheses and structures of two mixed ligands

lanthanide complexes with N,N'-substituted adipamide

AUTHOR(S):

Xu, Qing-feng; Dai, Jie; Zhao, Bei; Wang, Han-zhang;

Zhang, Dao; Yu, Kai-bei

CORPORATE SOURCE:

Department of Chemistry, Suzhou University, Suzhou,

215006, Peop. Rep. China

SOURCE:

Jiegou Huaxue (2001), 20(3), 168-172

CODEN: JHUADF; ISSN: 0254-5861

PUBLISHER:

Jiegou Huaxue Bianji Weiyuanhui

DOCUMENT TYPE: LANGUAGE:

Journal English

OTHER SOURCE(S):

CASREACT 135:146263

Neodymium(III) and dysprosium(III) nitrate complexes with the new ligand N, N'-dimethyl-N, N'-diphenyladipamide (mpaa), [Nd(mpaa) (DMSO) (NO3)3]2 (1) and Dy(mpaa)2(DMSO) (NO3)3 (2), were prepared and characterized by x-ray crystallog. Both complexes are triclinic with space group P.hivin.1, formula [C22H30N5NdO12S]2 (1) [C42H54N7DyO14S (2)], Mr = 1465.62[1075.48], a = 8.541(1)[9.711(2)], b = 11.915(1)[16.017(3)], c15.906(1) [16.686(3)] Å,  $\alpha$  107.22(1) [109.600(1)],  $\beta$  = 98.12(1)[92.50(1)],  $\gamma$  99.78(1)°[96.22(1)]°, V =1491.8(2)[2421.7(8)] Å3, dc = 1.631[1.475] g·cm-3, Z = 1[2], F(000) = 738[1098],  $\mu = 0.71073$  cm-1; R = 0.0261[0.0364], Rw = 0.0261[0.0364]0.0611[0.0857] reflections with 1>2  $\sigma$  (I). Complex 1 is dinuclear, in which two Nd(III) ions are double-bridged by two mpaa ligands. is a mononuclear complex, in which one of the two C:O groups in MPAA is uncoordinated. In the two above complexes, each Ln(III) ion is nine-coordinated including three bidentate nitrates, one DMSO mol. and two carbonyl oxygens from two different mpaa ligands. Neutral monodentate DMSO enters the coordination sphere to meet the geometric requirements. When the number of methylene between O:C···C:O in diamides (R1R2NCO)2(CH2)n was increased, the ligand prefers to act as a bridging reagent rather than a chelate.

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:318507 CAPLUS

DOCUMENT NUMBER:

135:91483

TITLE:

A structure-function study of ligand

recognition by CD22β

AUTHOR(S):

Van Rossenberg, Sabine M. W.; Sliedregt, Leo A. J. M.; Autar, Reshma; Piperi, Christina; Van der Merwe, Anton P.; Van Berkel, Theo J. C.; Kuiper, Johan; Biessen, Erik A. L.

1

CORPORATE SOURCE:

Leiden / Amsterdam Center for Drug Research, Division

of Biopharmaceutics, Sylvius Laboratories, Leiden

University, Leiden, 2300 RA, Neth.

SOURCE: Journal of Biological Chemistry (2001), 276(16),

12967-12973

CODEN: JBCHA3; ISSN: 0021-9258

American Society for Biochemistry and Molecular PUBLISHER:

Biology

DOCUMENT TYPE:

Journal

LANGUAGE: English

B-cell-specific CD22 is a member of a group of cell adhesion mols. within the Ig superfamily that display binding to glycans with terminal sialic acid residues. Binding of endogenous ligands to CD22 triggers B-cell activation and proliferation. It is therefore conceivable that high affinity ligands for CD22 may be of value as inhibitors of B-cell activation in allergy and chronic inflammation. In this study, we aimed to delineate the structural requirements for ligand binding to CD22. A library of 20 mono-, di-, and trisaccharide analogs of the basic binding motif Neu5Ac( $\alpha$ 2,6)Lac was synthesized and screened for affinity for CD22β. In general, CD22 ligand recognition appeared to be rather tolerant with respect to structural modifications of the anomeric sugar on a mono-, di-, and trisaccharide level, although affinity was increased by the presence of a nitro aromatic group at C-2. most potent monovalent ligand, Neu5Ac-4-nitrobenzoyl-Glc, was selected to generate multivalent ligands based on either a glutamate or Tris cluster core. All multivalent liqunds displayed at least a 10-fold increased affinity for CD22 compared with the corresponding monovalent glycoside. Interestingly, a maximal gain in affinity was already obtained for bivalent ligands, regardless of the terminal glycoside. A trivalent Tris-based cluster of Neu5Ac-4-nitrobenzoyl-Glc displayed a 300-fold higher affinity compared with the basic binding motif, which makes it, to our knowledge, the most potent antagonist for CD22 yet synthesized. As our in vitro fluorescence-activated cell sorting studies demonstrated efficient cellular uptake of a CD22 substrate, the most potent ligand in this study may hold promise as a homing device for immunomodulatory compds. and cytostatics.

REFERENCE COUNT:

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 15 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

34

ACCESSION NUMBER:

2001:168124 CAPLUS

DOCUMENT NUMBER:

134:218936

TITLE:

Crystal structure of CDC25 proteins and its use in

rational design of inhibitors

INVENTOR(S):

Taylor, Neil R.; Borhani, David; Epstein, David; Rudolph, Johannes; Ritter, Kurt; Fujimori, Taro; Robinson, Simon; Eckstein, Jens; Haupt, Andreas; Walker, Nigel; Dixon, Richard W.; Choquette, Deborah;

Blanchard, Jill; Kluge, Arthur; Pal, Kollol; Bockovich, Nicholas; Come, Jon; Hediger, Mark

PATENT ASSIGNEE(S):

Basf Aktiengesellschaft, Germany

SOURCE:

PCT Int. Appl., 314 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	NO.			KIN	D	DATE			APPL	I CAT	I NOI	.OI		D	ATE	
					-											
WO 200	10163	00		A2		2001	0308	1	WO 2	000-1	JS23	473		2	0000	825
WO 200	10163	00		A3		2002	0530									
W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG 20020731 EP 2000-959449 20000825 EP 1226237 A2 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL PRIORITY APPLN. INFO.: US 1999-172215P 19990831 WO 2000-US23473 W 20000825

MARPAT 134:218936 OTHER SOURCE(S):

The present invention relates to polypeptides which comprise the ligand binding domain of CDC25, crystalline forms of these polypeptides, and the use of these crystalline forms to determine the 3-dimensional

structure of the catalytic domain of CDC25 alone and in complexes with pentapeptide inhibitors. Atomic coordinates are provided from x-ray diffraction of crystals of CDC25A and CDC25B catalytic domains in the presence and absence of various inhibitors. The invention also relates to the use of the 3-dimensional structure of the CDC25 catalytic domain in methods of designing and/or identifying potential inhibitors of CDC25 activity, for example, compds. which inhibit the binding of a native substrate to the CDC25 catalytic domain. The method comprises the steps  $\frac{1}{2}$ of (1) identifying one or more functional groups capable of interacting with one or more subsites of the CDC25 catalytic domain, and (2) identifying a scaffold which presents the functional group or functional groups in a suitable orientation for interacting with one or more subsites of the CDC25 catalytic domain. Since CDC25 is a potential target for therapies aimed at controlling proliferative disease, the atomic coordinates allow rational structure-based design of potential agents for the treatment of cancer, restenosis, reocclusion of coronary artery, or inflammation.

ANSWER 20 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:281605 CAPLUS

DOCUMENT NUMBER:

SOURCE:

133:147140

TITLE: Estimation of Receptor-Ligand Interactions

by the Use of a Two-Marker System in Affinity

Capillary Electrophoresis

Mito, Erica; Zhang, Ying; Esquivel, Sally; Gomez, AUTHOR(S):

Frank A.

Department of Chemistry and Biochemistry, California CORPORATE SOURCE:

> State University, Los Angeles, CA, 90032, USA Analytical Biochemistry (2000), 280(2), 209-215

CODEN: ANBCA2; ISSN: 0003-2697

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal English LANGUAGE:

The study of receptor-ligand interactions by affinity capillary electrophoresis (ACE) requires an accurate form of anal. Here, we examine the use of two noninteracting stds. (markers) in the anal. of binding constant data in ACE studies. This concept is demonstrated using two model systems: carbonic anhydrase B (CAB, EC 4.2.1.1) and arylsulfonamides, and vancomycin (Van) from Streptomyces orientalis and the dipeptide N-acetyl-d-Ala-d-Ala. In this procedure a plug of receptor and noninteracting stds. is injected, and anal. of the change in the relative migration time ratio of the receptor, relative to the noninteracting stds., as a function of the concentration of the ligand yields a value for the binding constant The findings described here demonstrate that data

from ACE studies can best be analyzed using two noninteracting stds., yielding values comparable to those estimated using other binding and ACE techniques. (c) 2000 Academic Press.

REFERENCE COUNT:

THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS 38 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2004 ACS on STN ANSWER 21 OF 49

ACCESSION NUMBER:

2000:186322 CAPLUS

DOCUMENT NUMBER:

132:342333

TITLE:

[RuII(hedta)] - complexes of 2,2'-dipyridylamine (dpaH)

and a bifunctional tethered analog,

N, N, N', N'-tetrakis (2-pyridyl) adipamide (tpada)

AUTHOR(S): CORPORATE SOURCE: Shepherd, R. E.; Chen, Y.; Kortes, R. A.; Ward, M. S. Department of Chemistry, University of Pittsburgh,

Pittsburgh, PA, USA

SOURCE:

Inorganica Chimica Acta (2000), 303(1), 30-39

CODEN: ICHAA3; ISSN: 0020-1693

PUBLISHER:

Elsevier Science S.A.

Journal DOCUMENT TYPE: LANGUAGE: English

[RuII(hedta)(dpaH)]- [hedta3- = N-(hydroxyethyl)ethylenediamine-N,N,N'triacetate, dpaH = 2,2'-dipyridylamine] and [{RuII(hedta)}2(μ-tpada)] [tpda = N,N,N',N'-tetrakis(2-pyridyl)adipamide] were studied by 1H NMR and electrochem. methods in aqueous solution The bidentate rings of dpaH and tpada are differentiated as shown by NMR upon coordination to RuII due to differences in the local environment. The dpa-R headgroup of each ligand binds 'in-plane' with the en backbone of hedta3- and with one pyridyl ring being nearer the amine of hedta3- having the pendant glycinato group [matching the known arrangement with bpy (2,2'-bipyridine)]. RuII/III E1/2 values follow the order dpaH  $(0.32\ V)$  < tpada (0.47 V) < bpy (0.54 V), showing that dpaH is a weaker  $\pi$ -acceptor ligand than bpy, and that the withdrawing carbonyl functionality enhances the  $\pi$ -acceptor capacity for the tpada ligand, approaching the stability imparted by bpy. Only the 1:1 [RuII(hedta)(dpaH)] - complex forms even in the presence of excess dpaH. [RuII(hedta)(dpaH)] has a pKa of the dipyridylamine proton of .apprx.5.0 with [RuIII(hedta)(dpa-)] undergoing aquation (kH20 = 1.4 + 10-2)s-1) and OH--assisted dissociation (kOH = 1.33 + 104 M-1 s-1). The {[RuII(hedta)]2(tpada)}2- complex serves as a water-soluble model as to how {[ML']2(tpada)} complexes might act as an extended bridge between two metal binding sites, potentially those of metallo-derivatized DNA strands, or between one DNA strand and a protein crosslink. In this model M represents an appropriate metal for DNA derivatization such as RuII, PtII or PdII and L' represents the attachments to DNA nucleobase sites, aminocarboxylates/peptide coordination for antitumor purposes.

THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 56 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2004 ACS on STN ANSWER 22 OF 49

ACCESSION NUMBER:

1999:534605 CAPLUS

DOCUMENT NUMBER:

131:333744

TITLE:

A surface-modified functional liposome capable of

binding to cell membranes

AUTHOR(S):

Yagi, Nobuhiro; Ogawa, Yoshikatsu; Kodaka, Masato;

Okada, Tomoko; Tomohiro, Takenori; Okuno, Hiroaki;

Yagi, Nobuhiro; Konakahara, Takeo

CORPORATE SOURCE:

Biomolecules Department, National Institute of Bioscience and Human-Technology, Tsukuba, Ibaraki,

305-8566, Japan

SOURCE:

Chemical Communications (Cambridge) (1999), (17),

1687-1688

CODEN: CHCOFS; ISSN: 1359-7345

PUBLISHER:

Royal Society of Chemistry

DOCUMENT TYPE:

Journal

LANGUAGE:

English

A liposome including the lipopeptide RGD-C4A2, whose surface is modified by a GRGDS-repeating peptide ligand, is found to bind to NIH3T3 cells via the interaction between the peptide ligand and the membrane receptor.

REFERENCE COUNT:

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS 18 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 23 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:443257 CAPLUS

DOCUMENT NUMBER:

132:93620

TITLE:

Synthesis of a novel lipopeptide with  $\alpha$ -melanocyte-stimulating hormone peptide ligand and its effect on liposome stability. [Erratum to document cited in CA131:88183]

AUTHOR(S):

Ogawa, Yoshikatsu; Kawahara, Hidehiko; Yagi, Nobuhiro; Kodaka, Masato; Tomohiro, Takenori; Okada, Tomoko;

Konakahara, Takeo; Okuno, Hiroaki

CORPORATE SOURCE:

Biomolecules Dep., National Institute Bioscience and

Human-Technology, Ibaraaki, 305-8566, Japan

SOURCE:

Lipids (1999), 34(6), 643

CODEN: LPDSAP; ISSN: 0024-4201

PUBLISHER: DOCUMENT TYPE: AOCS Press Journal

LANGUAGE:

English

AΒ A corrected structure is given for Scheme 2.

ANSWER 24 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:425527 CAPLUS

DOCUMENT NUMBER:

131:87829

TITLE:

Preparation of N-(4-amino-6-quinolyl)carboxamides as chemokine receptor ligands and as anti-AIDS drugs

INVENTOR(S):

Hagmann, William K.; Springer, Martin S.

PATENT ASSIGNEE(S):

Merck and Co., Inc., USA

SOURCE:

U.S., 19 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5919776	A	19990706	us 1-997-993494	19971218
PRIORITY APPLN. INFO.:			US 1997-993494	19971218
OTHER SOURCE(S):	MARPAT	131:87829		

R3R2NZR4 [R2,R3 = H, (ar)alkyl, aryl, etc.; NR2R3 = heterocyclyl; R4 = NHCOXR7, CONHR7, NR8R9, etc.; R7 = H, alkyl, (hetero)aryl(alkyl), etc.; R8,R9 = H, alkyl, Ph; X = bond, O, NR8; Z = 2-(un)substituted quinoline-4,6-diyl] were prepared as chemokine receptor ligands and as anti-AIDS drugs (no data). Thus, 4,6-diamino-2-methylquinoline was amidated by (COCl)2 to give (H2NZNHCO)2 (Z = 2-aminoquinoline-4,6-diyl). 8

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2004 ACS on STN ANSWER 25 OF 49

ACCESSION NUMBER:

1999:397363 CAPLUS

DOCUMENT NUMBER:

131:182178

TITLE:

Binding of a dimeric derivative of vancomycin to L-Lys-D-Ala-D-lactate in solution and at a surface AUTHOR(S):

Rao, Jianghong; Yan, Lin; Lahiri, Joydeep; Whitesides,

George M.; Weis, Robert M.; Warren, H. Shaw

CORPORATE SOURCE:

Department of Chemistry and Chemical Biology, Harvard

University, Cambridge, MA, 02138, USA

SOURCE:

Chemistry & Biology (1999), 6(6), 353-359

CODEN: CBOLE2; ISSN: 1074-5521 Current Biology Publications

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE:

English

The emergence of bacteria that are resistant to vancomycin (V), a qlycopeptide antibiotic, results from the replacement of the carboxy-terminal D-Ala-D-Ala of bacterial cell wall precursors by D-Ala-D-lactate. Recently, it has been demonstrated that covalent dimeric variants of V are active against vancomycin-resistant enterococci (VRE). To study the contribution of divalency to the activities of these variants, we modeled the interactions of V and a dimeric V with L-Lys-D-Ala-D-lactate, an analog of the cell-wall precursors of the vancomycin-resistant bacteria. A dimeric derivative of V (V-Rd-V) was found to be much more effective than V in inhibiting the growth of VRE. The interactions of V and V-Rd-V with a monomeric lactate ligand diacetyl-L-Lys-D-Ala-D-lactate (Ac2KDADLac) - and a dimeric derivative of L-Lys-D-Ala-D-lactate (Lac-R'd-Lac) in solution have been examined using isothermal titration calorimetry and UV spectroscopy titrns.; the results reveal that V-Rd-V binds Lac-R'd-Lac approx. 40 times more tightly than V binds Ac2KDADLac. Binding of V and of V-Rd-V to Nα-Ac-L-Lys-D-Ala-Dlactate presented on the surface of mixed self-assembled monolayers (SAMs) of alkanethiolates on gold indicates that the apparent off-rate for dissociation of V-Rd-V from the surface is much slower than that of V from the same surface. The results are compatible with the hypothesis that divalency is responsible for tight binding, which correlates with small values of min. inhibitory concns. of V and V-Rd-V. 27

REFERENCE COUNT:

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 26 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:321129 CAPLUS

DOCUMENT NUMBER:

131:88183

TITLE:

Synthesis of a novel lipopeptide with  $\alpha\text{-melanocyte-stimulating hormone peptide}$ 

ligand and its effect on liposome stability

AUTHOR(S):

Ogawa, Yoshikatsu; Kawahara, Hidehiko; Yagi, Nobuhiro;

Kodaka, Masato; Tomohiro, Takenori; Okada, Tomoko;

Konakahara, Takeo; Okuno, Hiroaki

CORPORATE SOURCE:

Biomolecules Department, National Institute of

Bioscience and Human-Technology, Ibaraki, 305-8566,

Japan

SOURCE:

Lipids (1999), 34(4), 387-394 CODEN: LPDSAP; ISSN: 0024-4201

PUBLISHER:

AOCS Press Journal

DOCUMENT TYPE: LANGUAGE: English

Introduction of liposomes into target cells is important for drug delivery systems. For this purpose, the surface of the liposome is equipped with ligand peptides, which may bind to specific receptors on the cell membrane. An artificial novel lipopeptide (MSH-C4A2) containing the  $\alpha$ -MSH sequence and two long alkyl chains was designed and synthesized, and the liposome, composed of egg phosphatidylcholine (EPC) and MSH-C4A2, was prepared The stability of the liposome was estimated by measuring calcein leakage from the liposome inner phase. The stability of the liposome decreased upon addition of MSH-A4C2, which seemed to be attributable to the amphiphilic property of the peptide moiety ( $\alpha\text{-MSH}$ ) of MSH-A2C4. The stability was, however, recovered fairly

well upon addition of cholesterol (Ch) or phosphatidylglycerol (PG). It was concluded therefore that the ternary system, MSH-C4A2/Ch/EPC or

MSH-C4A2/PG/EPC, is suitable for preparing the functional liposome.

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 27 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

27

ACCESSION NUMBER: DOCUMENT NUMBER:

REFERENCE COUNT:

1999:261683 CAPLUS

131:55769

TITLE:

the active site of the enzyme superoxide dismutase Morales, Jose Luis Garate; Vergara, Enrique Gonzalez

Synthesis and characterization of model compounds of

AUTHOR(S): CORPORATE SOURCE:

Centro de Quimica Instituto de Ciencias. BUAP, Puebla

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS

de Zaragoza, Mex.

SOURCE:

Congreso Iberoamericano de Quimica Inorganica, 6th,

Puebla, Mex., Apr. 20-25, 1997 (1997), 47-50.

Asociacion Mexicana de Quimica Inorganica: Guanajuato,

Mex.

CODEN: 67NIAA

DOCUMENT TYPE:

Conference Spanish

LANGUAGE:

Five Cu(II) complexes with bi-, tri- or tetradentate ligands containing imidazole N as donor atom were synthesized for spectrophotometric modeling of the active site of superoxide dismutase. Characterization of these complex by UV and IR spectroscopy indicated that they displayed some characteristics of the enzyme. The Cu(II)-PEDTA20 complex reproduced the visible spectrum of superoxide dismutasé. However, the EPR data corresponded better to the characteristics of other Cu(II) enzymes, so the initial objective was modified to spectroscopic modeling of other Cu

metalloproteins.

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 28 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN L4

ACCESSION NUMBER:

1999:238153 CAPLUS

DOCUMENT NUMBER:

131:19206

TITLE:

Synthesis of neoglycoconjugate dendrimers

AUTHOR(S): Tsvetkov, Dmitry E.; Cheshev, Pavel E.; Tuzikov,

Alexander B.; Pazynina, Galina V.; Bovin, Nikolai V.;

Rieben, Robert; Nifant'ev, Nikolay E.

CORPORATE SOURCE:

N.D. Zelinsky Institute of Organic Chemistry, Russian

Academy of Sciences, Moscow, 117913, Russia

SOURCE:

Mendeleev Communications (1999), (2), 47-50 CODEN: MENCEX; ISSN: 0959-9436

Russian Academy of Sciences

PUBLISHER:

DOCUMENT TYPE:

Journal

LANGUAGE:

English

A series of polydentate dendritic neoglycoconjugates which contain 4, 8, 16, 32 B-disaccharide ligands were designed as probes to assess the influence of inter-ligand distance on binding to anti-B-disaccharide Igs.

REFERENCE COUNT:

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS 22 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 29 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:163629 CAPLUS

DOCUMENT NUMBER:

131:180

TITLE:

Cytotoxicity of (2,2':6',2''-Terpyridine)platinum(II) Complexes to Leishmania donovani, Trypanosoma cruzi,

and Trypanosoma brucei

AUTHOR(S):

Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.; Tweedale, Lindsay; Pratt, Jonathan

M.; Rock, Peter; Yardley, Vanessa; Croft, Simon L. CORPORATE SOURCE: Dyson Perrins Laboratory, Oxford University, Oxford,

OX1 3QY, UK

Journal of Medicinal Chemistry (1999), 42(6), 999-1006 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

A range of (2,2':6',2''-terpyridine)platinum(II) complexes are shown to possess antiprotozoal activity in vitro against Leishmania donovani, Trypanosoma cruzi, and Trypanosoma brucei, the causative organisms of tropical diseases leishmaniasis and trypanosomiasis. The best compds. caused 100% and 78% inhibition of growth of the intracellular amastigote forms of L. donovani and T. cruzi, resp., at a concentration of 1  $\mu M$  and 100% inhibition of growth of the bloodstream trypomastigote forms of T. brucei at a concentration of  $0.03~\mu M$ . The results obtained with complexes in which the fourth ligand to platinum(II) is capable of being substituted with a substitution inert hydroxyethanethiolate complex are compared. The ammine complexes show high antiprotozoal activity suggesting that the trans influence of the 2,2::6',2''-terpyridine ligand has a profound effect on the ease of displacement of the fourth ligand in (2,2':6',2''-terpyridine)platinum(II) complexes, although nonbonded interaction between the ammine ligand and the 6 and 6'' hydrogens probably also weakens the

REFERENCE COUNT:

ligation to Pt(II).

27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 31 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:437199 CAPLUS

DOCUMENT NUMBER:

129:213752

TITLE:

The use of affinity capillary electrophoresis for

determining binding constants of ligands to receptors Zhao, Dong S.; Kwak, Eun-Soo; Kawaoka, Jane; Esquivel,

Sally; Gomez, Frank A.

CORPORATE SOURCE:

Univ. California, Riverside, CA, USA

SOURCE:

American Laboratory (Shelton, Connecticut) (1998),

30(12), 40, 42-47

CODEN: ALBYBL; ISSN: 0044-7749

PUBLISHER:

AUTHOR(S):

International Scientific Communications, Inc.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The paper reports on using affinity capillary electrophoresis (ACE) to determine binding consts. between three receptor -ligand combinations: carbonic anhydrase B and arylsulfonamides; vancomycin and the peptide N-acetyl-D-Ala-D-ALa; adamantane carboxylic acids and  $\beta$ -cyclodextrin derivs.

REFERENCE COUNT:

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS 28 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 32 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:350876 CAPLUS

DOCUMENT NUMBER:

129:81953

TITLE:

Modification of receptor selectivity and functional

activity of cyclic cholecystokinin analogs

AUTHOR(S):

Amblard, Muriel; Rodriguez, Marc; Lignon, Marie-Francoise; Galas, Marie-Christine; Bernad,

CORPORATE SOURCE:

Nicole; Aumelas, Andre; Martinez, Jean Faculte de Pharmacie, CNRS - UMR 5810, Montpellier I

et II, Montpellier, 34060, Fr.

SOURCE:

European Journal of Medicinal Chemistry (1998), 33(3),

171-180

CODEN: EJMCA5; ISSN: 0223-5234

PUBLISHER:

Editions Scientifiques et Medicales Elsevier

DOCUMENT TYPE: LANGUAGE:

Journal English

The authors reported earlier on the synthesis and biol. activity at the cholecystokinin-B (CCK-B) receptor of cyclized CCK derivs. These peptides, in which the positions 28 and 31 were replaced by Lys residues, were bridged by a succinyl moiety. To determine the importance of the nature and size of the cyclic structure, cyclic analogs were synthesized in which: (i) the Lys residues were replaced by ornithine and diaminobutyric acid and (ii) the succinic moiety was replaced by a malonic, adipic and glutaric moiety. They were tested for their ability to inhibit the specific binding of 125I-BH-CCK-8 to CCK receptors in rat pancreatic acini and guinea pig brain membranes. They were also evaluated for their ability to stimulate amylase secretion from rat pancreatic acini. The potency and selectivity of these analogs were compared with those obtained with CCK-4 and compound JMV320, a potent and selective CCK-B receptor

ligand synthesized earlier in the authors' laboratory 26

REFERENCE COUNT:

THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 37 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:513635 CAPLUS

DOCUMENT NUMBER:

127:199246

TITLE:

Preparation of terpyridine-platinum(II) complexes as potent intercalators of DNA, and as antitumor and

antiparasitic agents

INVENTOR(S):

Lowe, Gordon

CODEN: PIXXD2

PATENT ASSIGNEE(S):

Isis Innovation Ltd., UK; Lowe, Gordon

SOURCE:

PCT Int. Appl., 62 pp.

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA!	CENT	NO.			KINI		DATE			APE	LICAT	'ION	NO.			DATE			
	WO							1997	0731		WO	1997-	GB21	8			19970	124		
			CA,	•																
		RW:	ΑT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GE	3, GR,	IE,	IT,	LU,	MC	, NL,	PT,	SE	
	$^{ca}$	2241	992			AA		1997	0731		CA	1997-	2241	992			19970	124		
	EΡ	8852	33			A1		1998	1223		EΡ	1997-	9011	87			19970	124		
	EP	8852	33			В1		2002	0619											
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	ΙΊ	LI,	NL,	SE,	ΙE,	FI		•		
	JР		5039									1997-					19970	124		
	EP	1164	138			<b>A</b> 1		2001	1219		ΕP	2001-	1217	76			19970	124		
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	ΓI	LI,	NL,	SE,	ΙE,	FI				
	AT	2194	93			E		2002	0715		AΤ	1997-	9011	87			19970	124		
	ES	2175	330			Т3		2002	1116		ES	1997-	9011	87			19970	124		
												1998-					19980	713		
PRIO	RIT	APP	LN.	INFO	. :						GB	1996-	1603			A	19960	126		
												1997-								
												1997-								
OTHE	D 97	NIDCE	101.			MADI	ידי אל כ	127.	1002			,		•		•		1		

OTHER SOURCE(S):

MARPAT 127:199246

GI

A new class of (un) substituted 2,2':6',2''-terpyridine-Pt(II) complexes I, AΒ in which an N- or O- or halo nucleophile is the fourth ligand to Pt, are prepared by a new method which involves reacting a Pt complex of 1,5-cyclooctadiene (or other strong bis-trans-labilizing ligand) with a 2,2':6',2''-terpyridine in the presence of MeCN. Compds. I and their water-soluble salts include X = aromatic heterocycle or Rn3, substituted aromatic heterocycle linked to Pt through N, or a nitrile (R4CN), an amine (R5NH2), an alc. (R6OH), NH3, or water linked to Pt through the resp. N or O, or halo. R, R' and R'' are the same or different and include H, alkyl, aryl, aralkyl, alkaryl, acyl, halo, haloalkyl, haloaryl, hydroxyalkyl, hydroxyaryl, aminoalkyl, aminoaryl, primary, secondary or tertiary amine, hydrazine, alkylhydrazine, alkoxy, aralkoxy, nitrile, ester, amide, nitro, azide, aziridino, or is a covalently linked chain which forms a dimeric or oligomeric species. R3 is a pos. charged group or is defined as R, R' or R'', and n = 1, 2 or 3 provided that when each R, R' and R'' is H, then X  $\neq$  Cl. The compds. are potent intercalators of DNA. Some compds. I have antitumor activity. The most effective compds. have antitumor activity comparable to or better than cisplatin and show little or no cross resistance. Such compds. are more effective than cisplatin against cisplatin-resistant cell lines. Other compds. are most effective against doxorubicin resistant cell lines. Some compds. I have antiparasitic activity. In vitro antiprotozoal activities against Leishmania donovani, Trypanosoma cruzi, Trypanosoma brucei, and Plasmodium falciparum are demonstrated. Ribonucleoside or 2'-deoxyribonucleosides base-labeled with the 2,2':6',2''-terpyridine-Pt(II) complexes are prepared and are of use to disrupt DNA replication.

L4 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:725712 CAPLUS

DOCUMENT NUMBER:

126:103882

TITLE:

dl-Selective reductive coupling/Dieckmann condensation

sequence of  $\alpha$ ,  $\beta$ -unsaturated amides with samarium(II) iodide/HMPA. Synthesis of a new ligand, trans-1,2-cyclopentanediyl-2,2'-

bis(phenol)

AUTHOR(S):

Kanemasa, Shuji; Yamamoto, Hidetoshi; Kobayashi,

Shigeru

CORPORATE SOURCE:

Inst. Adv. Mater. Study, Kyushu Univ., Kasuga, 816,

Japan

SOURCE:

Tetrahedron Letters (1996), 37(47), 8505-8506

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER:

DOCUMENT TYPE:

Elsevier Journal

LANGUAGE:

English

GΙ

By action of SmI2-HMPA in THF, (E)-N,N-dimethyl- $\alpha$ , $\beta$ -unsatd. AΒ amides gave 1,2-trans-2,3-trans stereoisomers of 2,3-disubstituted 5-oxo-1-cyclopentanecarboxamides via a highly dl-selective reductive coupling followed by Dieckmann condensation. Water-d2 was an effective quenching agent. This reaction was applied to the preparation of trans-1,2-cyclopentanediyl-2,2'-biphenol, which is a new C2-sym. chiral ligand. The reaction of (E)-N, N-dimethyl-3-[(2phenylmethoxy)phenyl]-2-propenamide (I) with samarium iodide gave II. Subsequent hydrolysis and reduction of II gave trans-2,2'-(1,2cyclopentanediyl)bis[phenol] (III).

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS 12 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2004 ACS on STN ANSWER 40 OF 49

ACCESSION NUMBER:

1995:851985 CAPLUS

DOCUMENT NUMBER:

124:185539

TITLE:

SOURCE:

Nanoparticles containing an active agent and a

poly(tartaramide ketal)

INVENTOR(S):

Ahlers, Michael; Walch, Axel; Seipke, Gerhard;

Russell-Jones, Gregory

PATENT ASSIGNEE(S):

Hoechst A.-G., Germany Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
EP 671169	A1	19950913	EP 1995-103045	19950303		
R: AT, BE, CH,	DE, DK	, ES, FR, G	B, GR, IE, IT, LI, LU,	NL, PT, SE		
DE 4407898	A1	19950914	DE 1994-4407898	19940309		

TW 457096	В	20011001	TW 1995-84101519		19950220
FI 9501053	A	19950910	FI 1995-1053		19950307
US 5674531	A	19971007	US 1995-399474		19950307
IL 112905	A1	20000831	IL 1995-112905		19950307
CA 2144216	AA	19950910	CA 1995-2144216		19950308
NO 9500889	A	19950911	NO 1995-889		19950308
AU 9514701	A1	19950921	AU 1995-14701		19950308
AU 685577	B2 i	19980122			
JP 07258114	A2	19951009	JP 1995-48006		19950308
ZA 9501910	A	19951113	ZA 1995-1910		19950308
ни 72033	A2	19960328	HU 1995-698		19950308
PRIORITY APPLN. INFO.:			DE 1994-4407898	Α	19940309

GI For diagram(s), see printed CA Issue.

AB Nanoparticles of poly(tartaramide ketal) [I; R2 = (substituted) alkylene, cycloalkylene] are useful as biocompatible, biodegradable carriers for drugs, especially peptides and proteins. The nanoparticles may be functionalized with specific ligands which facilitate receptor-mediated transport through the intestinal wall. Thus, DL-tartaric acid was refluxed in MeOH with 2,2-dimethoxypropane and p-toluenesulfonic acid to form di-Me 2,3-O-isopropylidene-DL-tartrate, which was polymerized with 1,8-diaminooctane. A solution of this polymer 280, polylysine 60, and insulin 40 mg in MeOH was spray dried to produce nanoparticles 330 nm in diameter

L4 ANSWER 41 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:702992 CAPLUS

DOCUMENT NUMBER:

123:186764

TITLE: Synthes

Synthesis, characterization and biological activity of

metal complexes of N,N'-bis(8-hydroxy-5-

quinolinyl) adipamide

AUTHOR(S):

Patel, R. D.

CORPORATE SOURCE:

Chemistry Department, Sardar Patel University, Vallabh

Vidyanagar, 388120, India

SOURCE:

Journal of Indian Council of Chemists (1993), 9(2), 48-51

CODEN: JICCE7; ISSN: 0971-5037

PUBLISHER:

Indian Council of Chemists

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Complexes prepared from a novel bis-bidentate ligand N,N'-bis(8-hydroxy-5-quinolinyl) adipamide with some bivalent metal ions such as Co, Ni, Cu and Zn, were characterized with the aid of anal., magnetic and thermal data along with IR and electronic spectra. All the complexes showed a 1:1 metal to ligand stoichiometry and a polymeric nature with an octahedral stereochem. at the coordinated metal atom. The coordination polymers are potentially antifungal exhibiting the activity in the range 40-70%.

L4 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:293370 CAPLUS

DOCUMENT NUMBER:

120:293370

TITLE:

Determination of Binding Constants of Ligands to Proteins by Affinity Capillary Electrophoresis:

Compensation for Electroosmotic Flow

AUTHOR(S):

Gomez, Frank A.; Avila, Luis Z.; Chu, Yen-Ho;

Whitesides, George M.

CORPORATE SOURCE:

Department of Chemistry, Harvard University,

Cambridge, MA, 02138, USA

SOURCE:

Analytical Chemistry (1994), 66(11), 1785-91

CODEN: ANCHAM; ISSN: 0003-2700

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB This paper describes the estimation of binding consts. (Kb) between carbonic anhydrase B (CAB, E.C.4.2.1.1, from bovine erythrocytes) and charged benzenesulfonamides by affinity capillary electrophoresis (ACE) under conditions in which the migration time is affected by changes in electroosmotic flow and by nonspecific interactions accompanying changes in the concentration of ligand. Comparisons of values of migration times of the protein of interest, and of noninteracting marker proteins, with those of a neutral internal standard provide the basis for corrections for variable electroosmotic flow; these corrections make possible the estimation of Kb and its uncertainty even in the presence of substantial variations in electroosmotic flow.

L4 ANSWER 45 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

1993:551940 CAPLUS

DOCUMENT NUMBER:

119:151940

TITLE:

Synthesis and opioid receptor affinity of bivalent ligands derived from 3,8-diazabicyclo(3.2.1)octanes

AUTHOR(S):

Barlocco, Daniela; Fadda, Paola; Fratta, Walter Ist. Chim. Farm. Toss., Univ. Milano, Milan, 20131,

Italy

SOURCE:

Farmaco (1993), 48 (3), 387-96 CODEN: FRMCE8; ISSN: 0014-827X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GI

AB A new series of bivalent ligands [I, X = (CH2)2, (CH2)3, (CH2)4 or trans CH2-CH=CH-CH2], derived from the previously reported analgesic 3-cinnamyl-8-propionyl-3,8-diazabicyclo(3.2.1)octaine (II), has been synthesized and tested in vitro for their affinity towards opioid receptors and in vivo for their analgesic potency. None of the new compds. showed either appreciable affinity for opioid receptors or analgesic activity comparable to that of the model II.

opioid

L4 ANSWER 47 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1992:465899 CAPLUS

DOCUMENT NUMBER:

117:65899

TITLE:

Use of affinity capillary electrophoresis to measure

binding constants of ligands to proteins

AUTHOR(S):

Chu, Yen Ho; Avila, Luis Z.; Biebuyck, Hans A.;

Whitesides, George M.

CORPORATE SOURCE:

Dep. Chem., Harvard Univ., Chambridge, MA, 02138, USA Journal of Medicinal Chemistry (1992), 35(15), 2915-17

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

Journal English

LANGUAGE:

SOURCE:

In open tubular capillary electrophoresis of carbonic anhydrase B (CAB,

E.C.4.2.1.1, from bovine erythrocytes), addition to the electrophoresis buffer of benzene sulfonamides substituted in the 4-position with neg. charged groups increases the mobility of CAB. Adding NADP+ and NADPH to the electrophoresis buffer also increases the mobility of glucose-6-phosphate dehydrogenase (E.C.1.1.1.49, from Leuconostoc mesenteroides). For calmodulin (bovine testes), increasing concentration of calcium ion in the electrophoresis buffer decreases the mobility of the protein. Analyses of electrophoretic mobilities as a function of the concentration of these ligands yields values for their binding consts. to the corresponding proteins. These values agree well with those estimated using conventional assays. Affinity capillary electrophoresis has the potential to be a sensitive and convenient new method for measuring binding consts. to proteins.

L4 ANSWER 48 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:135903 CAPLUS

DOCUMENT NUMBER:

114:135903

TITLE:

Synthesis and pharmacological evaluation of the anticonvulsant activity of bivalent ligands derived

from 4-amino-2',6'-dimethylbenzanilide

AUTHOR(S):

Poupaert, J. H.; Hermans, E.; Jonckheere, Y.; Mergen,

F.; Lambert, D.; Lerot, T.; Aandrianjara, R.;

Poupaert, E. J.; Lybrand, T.; Durant, F.

CORPORATE SOURCE:

Sch. Pharm., Cathol. Univ. Louvain, Brussels, B-1200,

Bela.

SOURCE:

Asia Pacific Journal of Pharmacology (1990), 5(3),

249-51

249 JI

DOCUMENT TYPE:

CODEN: APJPEV; ISSN: 0217-9687 Journal

LANGUAGE:

English

GΙ

Me NHCO NHCO (CH<sub>2</sub>) 
$$_{n}$$

antionvolsant demethy/bonzanilide

AB A homologous series of bivalent ligands (I, n = 1-8) consisting of 2 4-amino-2',6'-dimethylbenzanilide mol.s linked by a  $\omega,\omega'$ -diacylpolymethylene connector of varying length was synthesized and evaluated for anticonvulsant activity. The choice of the 4-amino-2',6'-dimethylbenzanilide moiety was based on its chemical simplicity, its high potency and selectivity and its intrinsic rigidity as illustrated by energy refinement and mol. dynamics studies based on x-ray data. The compds. were tested in mice by the maximum electroshock seizure test. Only I (n = 3) showed a modest activity indicating that probably no bridging of proximal receptor sites occurs.

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L4 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1990:191480 CAPLUS

DOCUMENT NUMBER:

112:191480

TITLE:

Molecular recognition between oligopeptides and

nucleic acids: DNA binding specificity of a series of

bis netropsin analogs deduced from footprinting

analysis

AUTHOR(S):

Kissinger, Koren L.; Dabrowiak, James C.; Lown, J.

William

CORPORATE SOURCE:

Dep. Chem., Syracuse Univ., Syracuse, NY, 13244-1200,

IISA

SOURCE:

Chemical Research in Toxicology (1990), 3(2), 162-8

CODEN: CRTOEC; ISSN: 0893-228X

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OTHER SOURCE(S):

CASREACT 112:191480

A series of tether-linked bisnetropsins were prepared in order to assess the phasing problem, which arises because of the lack of dimensional correspondence between oligopeptides and oligonucleotides in DNA binding characteristics. The consequences of incorporating variable-length flexible and rigid tethers [poly(methylene), Z and E ethylene, m- and p-phenylene] between the 2 netropsin-like moieties on the DNA binding properties were assessed by DNase I footprinting. The conformational freedom associated with 2 netropsins linked by a flexible methylene tether allows ligand binding in both a mono- and bidentate fashion, with bidentate binding requiring a min. linker length of (CH2)6. For compds. possessing rigid tethers, for example, cis and trans ethylene moieties, the cis geometry excludes bidentate ligation, while the trans structure favors it. Bisnetropsins possessing aryl linking groups have reduced DNA binding affinities. This is most plausibly due to the aryl groups, which are not coplanar with the netropsin moieties, thus blocking the ligand from penetrating deeply into the minor groove of DNA.

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